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```
REQUEST.CPP
old Request::service()
{
    const char *p = strchr(request, '/');
    if (p)
        filename = Cstring(request, p - request);
    else
        filename = request;
}
```

```
const char *p = filename;
if (*p == '/')
    p++;
// send default
//<ondrila> h:\my documents\internet address cinder\latmain.htm
if (defined(&P))
    sendfile("c:\\lat\\html\\latmain.htm");
return;
```

```
sendfile("c:\\lat\\html\\latmain.htm");
else
{
    if (defined(&P))
        Cstring(p, "c:\\lat\\html\\");
    else
        ASSERT(FALSE);
    Cstring(p, "c:\\lat\\manage\\");
sendfile("c:\\lat\\manage\\");
else
    sendfile();
return;
```

```
    }
    senderror("404 Not Found");
}

void Request::sendInternalError()
{
    senderror("500 Internal Server Error");
}
```

DC 069506
HIGHLY CONFIDENTIAL

REMEMBERAD.CPP

29-Dec-1995 17:32

Page 1(3)

```

// rememberad.cpp
//
// todo: nonunique hashes
// DWord hash(const char *from, User *u)
// {
//     char buffer[10];
//     wprintf(buffer, "%s", u->getId());
//     CString a = buffer;
//     // a = from;
//     // return hash(a);
// }

void Memory::remember(Keys k, DWord adId)
{
    static int count;
    if (count > 1000) {
        count = 0;
        purge();
    }

    DWord memory::lookup(Keys k)
    {
        Value v;
        v.adsent = adId;
        v.time = iGetTickCount();
        sent.Search(v);
        return v;
    }

    void Memory::iLookup(Keys k)
    {
        Value value;
        if (sent.Lookup(k, value)) {
            return value.adsent;
        }
        return 0;
    }

    void Memory::iPurge()
    {
        const LIMIT = 1000 + 60 * 60 * 24; // too much?
        if (sent.GetCount() > LIMIT) {
            message("remember map > %d\n", sent.GetCount());
            POSITION p = sent.GetStartPosition();
            while (p != sent.GetEndPosition()) {
                Key k;
                Value v;
                sent.GetNextItem(p, k, v);
                sent.RemoveKey(k);
            }
        }
    }

    void rememberSendAd(User *u, const char *fromDoc)
    {
        Crit crit(&lock);
        // INPIT
        Key k;
        k.setId(adId);
        k.setFrom(fromDoc);
        memory.remember(k, adId);
        // OUTCPIT
    }

    DWord queryAdSent(User *u, const char *fromDoc)
    {
        Crit crit(&lock);
        // INPIT
        Key k;
        k.setId(adId);
        k.setFrom(fromDoc);
        DWord d = memory.lookup(k);
        // OUTCPIT
        return d;
    }
}

```

REMEMBERAD.CPP

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Page 2(3)

```

// todo: nonunique hashes
// DWord hash(const char *from, User *u)
// {
//     char buffer[10];
//     wprintf(buffer, "%s", u->getId());
//     CString a = buffer;
//     // a = from;
//     // return hash(a);
// }

void Memory::remember(Keys k, DWord adId)
{
    static int count;
    if (count > 1000) {
        count = 0;
        purge();
    }

    DWord memory::lookup(Keys k)
    {
        Value v;
        v.adsent = adId;
        v.time = iGetTickCount();
        sent.Search(v);
        return v;
    }

    void Memory::iLookup(Keys k)
    {
        Value value;
        if (sent.Lookup(k, value)) {
            return value.adsent;
        }
        return 0;
    }

    void Memory::iPurge()
    {
        const LIMIT = 1000 + 60 * 60 * 24; // too much?
        if (sent.GetCount() > LIMIT) {
            message("remember map > %d\n", sent.GetCount());
            POSITION p = sent.GetStartPosition();
            while (p != sent.GetEndPosition()) {
                Key k;
                Value v;
                sent.GetNextItem(p, k, v);
                sent.RemoveKey(k);
            }
        }
    }

    void rememberSendAd(User *u, const char *fromDoc)
    {
        Crit crit(&lock);
        // INPIT
        Key k;
        k.setId(adId);
        k.setFrom(fromDoc);
        memory.remember(k, adId);
        // OUTCPIT
    }

    DWord queryAdSent(User *u, const char *fromDoc)
    {
        Crit crit(&lock);
        // INPIT
        Key k;
        k.setId(adId);
        k.setFrom(fromDoc);
        DWord d = memory.lookup(k);
        // OUTCPIT
        return d;
    }
}

class Memory
{
public:
    Memory() : sent(100)
    {
        sent.InitHashTable(512);
    }

    void remember(Keys k, DWord adId);
    DWord lookup(Keys k);

private:
    void purge();
};

class Key
{
public:
    Key(Keys k, DWord adId, User *u);
    void setFrom(const char *from);
    void setId(DWord id);
    void setTo(DWord id);
    void setValue(const char *value);
};

class Value
{
public:
    Value(DWord adId, User *u, const char *from);
    void setId(DWord id);
    void setFrom(const char *from);
    void setValue(const char *value);
};

```

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DC 069507

```

MATCH.CPP
18-Jan-1996 19:15
Page 3 (6)          MATCH.CPP
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Page 6 (6)

// a truly random distribution is used for them rather than
// leftovers.
static int testCounter;
int startCounter = 0 ... 0 ) { // just try every 4 to save CPU
    lowestSI = 1000;
    int i = start;
    while (i) {
        Ad ad = ads.GetAd(i); // Test Ad ad.ad < lowestSI is ad.criteriaOK(db, user, page)
        if (ad.type == Test Ad ad.ad < lowestSI is ad.criteriaOK(db, user, page) )
            lowestSI = ad.ad;
        adowestSI = Ad;
        if (i + 1) & model);
        if (i > start)
            break;
        if (lowestSI < 1050)
            return adowestSI;
    }
    lowestSI = SIMILAR;
    adowestSI = defaultAd;
    // Check remains first. This way, we don't
    // have to do ad matching for any targeted ad
    // with high SII.
    int i = start;
    Ad ad = ads.GetAd(i);
    if (ad.type == Normal Ad ad.isTargeted() && ad.ad < lowestSI is ad.spreadOK(page) )
        lowestSI = ad.ad;
    adowestSI = Ad;
    while (i) {
        if (i + 1) & model);
        if (i > start)
            break;
        if (lowestSI > 1000) {
            // do either a better ad or an Ian dev ad
            static int counter = 5 ... 0 );
            if (& counter < 5 ... 0 ) {
                // do an Ian dev ad
                i = start;
                while (i) {
                    Ad ad = ads.GetAd(i);
                    if (ad.type == IanDev Ad ad.criteriaOK(db, user, page) )
                        lowestSI = ad.ad;
                    if (i + 1) & model);
                    if (i > start)
                        break;
                }
            }
            else {
                // do barter
                lowestSI = SIMILAR;
                i = start;
                while (i) {
                    Ad ad = ads.GetAd(i);
                    if (ad.type == Barter Ad ad.isTargeted() && ad.criteriaOK(db, user, page) )
                        lowestSI = ad.ad;
                    adowestSI = Ad;
                    if (i + 1) & model);
                    if (i > start)
                        break;
                }
            }
        }
        if (adowestSI < lowestSI)
            return adowestSI;
    }
    lowestSI = Ad;
}

// for ads where we don't care about impressions.
// bias in favor of targeted
// lowestSI = 100;
// todo later. If ads are sorted by ad (lowest first),
// you can quit matching as soon as you find
// one. Could be a good optimization.

// found a good one
lowestSI = ad.ad;
}

```

```

REQUEST.CPP 03-Jan-1996 15:53 Page 1(3)

// request.cpp
//
#include "std.h"
#include "d/Socket/sock.h"
#include "request.h"
#include "d/Socket/lat_util.h"
#ifndef _CONSOLE_
#include "stream.h"
#endif

if defined(_API)
extern ostream *outLog;
void Impression();
endif

extern CString gratuito;
Request *Request;
Connection *_c;
Verb _v;
const char *request,
const sockaddr_in from,
c_ip, request_request, v_ip;
userip *from, ein_addr *addr;
}

int spider = 0;

bool Request::SendPile(const char *filename, const char *inertstr)
{
    outLog << "Send " << filename << " " << inet_ntoa((in_addr) userip) << "\n";
    bind();
    const char inertchar = '_';
    bool lesSpider = FALSE;
    CString hdr = "HTTP/1.0 200 OK\r\nContent-Type: ";
    if (strchr(filename, '.')) {
        hdr = "text/html\r\nContent-Length: ";
        hdr = "application/xhtml+xml\r\nContent-Length: ";
    } else {
        hdr = "image/gif\r\nContent-Length: ";
        if (strchr(request, "Agent: Lycos")) {
            hdr = "text/html\r\nContent-Length: ";
        }
    }
    if (defined(_API))
        Impression();
    lendif
    int gnt = 0;
    if (strchr(request, "Agent: Lycos")) {
        gnt = 1;
        if (strchr(request, "Infoseek Robot")) {
            gnt = 2;
            if (strchr(request, "Agent: WebCrawler")) {
                gnt = 3;
            }
        }
    }
    if (gnt)
        lesSpider = TRUE;
    spider();
    if (defined(_CONSOLE))
        cout << "..... Robot " << gnt << ".....\n";
    sendit
}
const bufsize = 130000;
char buf[bufsize];
#endif

```

```

REQUEST.CPP 03-Jan-1996 15:53 Page 2(3)

if (v == GET || v == POST) {
    if (!OpenFileName, CFileShareRead | CFileShareDenyWrite, &t1) {
        if (t1.f_ncause == CFileExceptionAccessDenied) {
            perror("File cause: \"0x4 Not Found (Access Denied)\");
            else if (t1.f_ncause == CFileExceptionSharingViolation) {
                perror("File cause: \"0x4 Not Found (Sharing Violation)\");
            else
                perror("File cause: \"0x4 Not Found\"");
            return FALSE;
        }
        n = fReadBuf, bufsize;
    }
    else {
        spider = FALSE;
        // READ
        n = readFileSize(filename);
        if (n < 0) {
            perror("File cause: \"0x4 Not Found\"");
            return FALSE;
        }
        ASSERT(n > 0 && n < bufsize);
        char *p = buf;
        if (inertstr) {
            while (1) {
                p[archip].InsertChar();
                if (p == 0)
                    break;
                int i = archip.getLineStart();
                memmove(*l, p + 1, strlen(p));
                memcpyp, inertstr, 1);
                p += i;
                n -= i;
            }
        }
        if (spider) {
            if (gratuitous.IsEmpty()) {
                if (defined(_CONSOLE))
                    cout << "gratuitous empty (" << n << ")";
                pendif
            }
            else {
                buf[n] = 0;
                char *p = strtrbuf, /*</MODY*/;
                if (p)
                    for (int i = 0; i < 20; i++) {
                        strcpy(p, gratuitous);
                        p += gratuitous.GetLength();
                    }
                else
                    strcpyip, /*</ODT>/HTML>*/,
                    n = (p - buf) + 14;
            }
            else {
                if (defined(_CONSOLE))
                    cout << "gratuitous<br>";
                pendif
            }
        }
        char temp[100];
        itoin, temp, 10;
        hdr = temp;
        hdr = "\r\n\r\n";
        convert((const char *)hdr, hdr.GetLength());
        if (v == GET || v == POST) {
            CFileShareRead, n);
        }
        return TRUE;
    }
}

```



```

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HATCH.CPP

if (lo & ob) == 0)
    return FALSE;
// browser
else if ((int) user->browser) {
    if ((lo & browser) == 0)
        return FALSE;
}

// domain type
int userisp = 0;
if (dt == (int) user->domainType)
    if (de == (int) dtDispOther) == 0)
        userisp = dt = (int) dtDispOther; == 0;
dt = 0;

// ISP
0 == 1 && userisp,
if (lo & lisp) == 0)
    return FALSE;
else {
    0 == 1 && dt
    if (lo & domainType) == 0)
        return FALSE;
}

// location
if (location != 0) {
    // If ISP, don't know location (yet)
    if (userisp)
        return FALSE;
}

BOOL ok = FALSE;
for (int i = 0; i < nLocations; i++) {
    if (user->location.intLocation[i] != 0)
        ok = TRUE;
    break;
}
if (ok)
    return FALSE;
}

// hour of day / day of week
if (hourOfDay != -1 || dayOfMonth != -1) {
    tm st;
    if (isAbsoluteTime) {
        // Get time relative
        tm now;
        timeNow();
        t = localtime(&now);
        return FALSE;
    }
    else {
        user->location.userRelativeTime();
        if (t == 0)
            return FALSE;
        tm thourOfDay = t + (user->user_hours) == 0)
            return FALSE;
        if (dayOfWeek & (1 <= t <= user_weekday)) == 0)
            return FALSE;
    }
}

// sales
if (salesValue != 0) {
    0 == 1 && user->salesVolume,
    if (lo & salesVolume) == 0)
        return FALSE;
}

// Employee
if (employee != 0) {
    0 == 1 && user->employee,
    if (lo & employee) == 0)
        return FALSE;
}

```

```

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HATCH.CPP

// SIC
if (!nsicCodes) {
    Bool ok = FALSE;
    int j = 0;
    while (j < nsicCodes) {
        if (!nsicCodes[j]) {
            // no match
            return FALSE;
        }
        SICCodes pattern = sicCodes[j];
        user->sicCodes.reset();
        SICCode sic;
        while (user->sicCodes.getNsic(sic)) {
            if (pattern.matches(sic)) {
                ok = TRUE;
                break;
            }
        }
        if (ok)
            break;
    }
}
if (!isp)
    return FALSE;

// Site and page categories
// Do last, because this is expensive (disk hit)
if (!siteCategories.isEmpty()) {
    NOOL vspage == 0;
    if (sitepage == 0)
        return FALSE;
    sitepage = loadCategories();
    for (int i = 0; i < sitepage->categories.GetSize(); i++) {
        if (siteCategories.Lookup(sitepage->categories.GetCat(i), vi))
            ok = TRUE;
    }
    return TRUE;
}
return TRUE;
}

inline ADOL_AdJ criterionOK(Database db, User *user, SlicePage *page)
{
    if (siteCategories.isEmpty())
        return exposureOK(page);
    if (sitepage == 0)
        return exposureOK(db, user);
    if (match(user, page) && exposureOK(db, user))
        return TRUE;
}

// todo, if retained ads, need to handle the fact that
// one may still be in use and can't just delete.
// (Cust acc released during sending of title.)
// Ad->getAd(Database db, User *user, SlicePage *page, NOOL increment)
const SIMAX = 1000000;
if (user->uniqueness & unlikely)
    return defaultAd;
if (page == 0)
    if (badkeyErrorAd)
        return badkeyErrorAd;
    ASSETP(FALSE);
}

// increment
nAdd = increAd + 1 + nAdd();
Int lowval;
Ad->adSet();
const Int start = nextAd;
// Do a test ad, if appropriate. Always do these first so that

```

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```
objects.cpp
{
    void Log( IUnknown* p )
    {
        // Temp, just return first ad (ISS)
        // returning new Ad (e.g. ElementAd) is
        // return new Ad (defaulted)
        // return 0
    }
}
```

```

// cookie.cpp
//
#include "adata.h"
#include "object.h"
//.....
// cookie
const Cookies::operator<(const char *a)
{
    assert(a != 0);
    return *this;
}

/*static*/
Cookie::Cookie(void) : user(0)
{
    ASSERT(user == 0);
    Cookie();
    k.value = user;
    return k;
}

// Get value for a particular cookie name from the HTTP header
// hdr - points to the Cookies field in the header
// void cookie::getFromHeader(const char *hdr, const char *name)
void cookie::getFromHeader(const char *hdr, const char *name)
{
    hdr += 7; // skip 'Cookie'
    const char *p = strchr(hdr, ',');
    if (p)
    {
        strcpy(nn, name);
        nn[0] = '\0';
        const char *q = strchr(hdr, nn);
        if (q - p)
        {
            q[0] = '\0';
            this = q - nn.GetLength();
        }
    }
}

```

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OBJECTS.CPP

18-Jan-1998 10:10

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```

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objects.cpp

    else {
        // lookup by cookie
        u = lookupById(db, cookie.value, tmout);
        if (u) {
            u.uniqueness = uUser;
            u.sip = ip;
        }
        else {
            if (defaultMode) {
                // db Conn down
                u = new User();
                u.uniqueness = uUser;
                u.sip = ip;
                u.cookie = cookie.value;
            }
            else {
                // Couldn't find user record, we will need to
                // assign a new cookie. Do not load by IP, because
                // we don't want this user sharing a record
                // with others without cookies.
                // Note: generally, this shouldn't happen.
                cookie.value = 0;
            }
        }
        if (u && !timedOut) {
            u = lookupUserId(db, ip, tmout);
            if (u) {
                u.sip = ip;
                u.shareCookie = FALSE;
            }
        }
        if (u == 0) {
            // make a default user object
            u = new User();
            u.uniqueness = uUser;
            u.sip = ip;
            u.timedOut = _timedOut;
            u.setHeader(requestId);
            if (cookie.isNull())
                u.shareCookie = TRUE;
            if (loadDemographics(&u, _timedOut))
                u->getNetworkInfo(db, realTime ? u->timedOut : 0);
        }
        return u;
    }
    // Silence
    Adi->indentalUser.user, const char *fromDoc;
    DHOPO adnum = queryAddsentUser(fromDoc);
    for (int i = 0; i < nadal; i++) {
        Adi = ads.GetAd(i);
        if (Adi->adNum == adNum)
            return new Adi();
    }
    if (badKeyError(adNum == badKeyErrnra, id))
        return badKeyErrnra;
    if (user.uniqueness == unlikely) {
        if (definedInLog)
            errLog->indentalTo(failedUniqueness, unlikely);
        errLog->user->user.userID = "\0";
        errLog->user->user.fromDoc = "\0";
    }
}

```

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Page 411

16-Jan-1998 10:10

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15.10

consonant	char	day
'	'	"Sunday"
l	l	"Monday"
w	w	"Wednesday"
r	r	"Thursday"
f	f	"Friday"
s	s	"Saturday"

```

    "10pm-11pm",
    "11pm-12am",
    ],
    const char *days[1] = {
        "Sunday",
        "Monday",
        "Tuesday",
        "Wednesday",
        "Thursday",
        "Friday",
        "Saturday"
    },
    #endif // _JUSTSTRINGS

    include aerates.h,
    include ostream.h,
    include winsock.h,
    include objects.h,
    include tables.h,
    include /d/toolkit/flatutil.h,
    include /d/toolkit/db.h,
    include /d/toolkit/dbutil.h,
    include /d/driver/qldriver.h,
    include /d/nasdrive/qalg.h,
    include reamberad.h,
    extern ostream &log,
    extern Ad *badkeyerrord;
    Inc maxAd = 0;
    #endif // _JUSTSTRINGS
    #if !defined(derived)
    int nadal(),
    #endif
    #endif // _User
    #endif // _User // new version of Internet Explorer
    #endif // _User // old User

```

```

return browser == 'chrome' ||

    browser == 'ff' ||
    browser == 'ie';

void User::derivativeDomainTypeProcessor()
{
    switch (browser) {
        case 'bradel':
            domainType = 'delphi';
            break;
        case 'bradelid':
            domainType = 'delphid';
            break;
        case 'brprodigy':
            domainType = 'prodigy';
            break;
        case 'brdelphi':
            domainType = 'delphi';
            break;
        default:
    }
}

```

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18-Jan-1996 17:13

100

TRADEMARKS, CPP

101 add as 016
delete usera // print

```
SitePage :>page = SitePage::lookupPageFrom(rom, request),
```

```
        Cstring hdr = "HTTP/1.0 200 OK\r\nContent-Type: text/html;\r\npragma: no-cache\r\nContent-Length: " +  
        char buff[10000];  
        buf = 0;  
        stream.read(buff, 10000, len);out1
```

```
// fill content
const char* body = "h1>Jump Redirect</h1>
<script>
  document.write('
  <h1>Jumping from document!</h1>
  <script>
    window.location.href = 'http://www.google.com'
  </script>
  </body>
</html>";

```

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```
        cstring in a document
        test as <center>ing br>\n
        as <const char * in
        as \\"\\
        as </pre>/body>/html>
```

```
int n = count::pcount();
```

```
char temp[100],  
    losn, temp, losn; // content length  
hdr = temp;  
temp = losn;  
losn = '\r\n\r\n';
```

```
const char *hdr, hdr.GetLength();
```

logjump(ad, user, page);
currentroute();

delete page!
delete ad!
delete user!

```
void GetRequest::sendFrame (const char *from)
```

old GetRequestActivityIcon() const char *activityString
is used and for best response time

cool bad = FALSE;

// send the file first

```
ActivityType type;
String idKey;
Bool ok = TRUE;
Activity *activity;
```

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TYPE -

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```

else {
    page = SitePage::lookupPage(*db, (from, request));
    ad = Ad::getAd(*db, user, page, v == dft);
    if (v == GET) {
        // trace("getSeln", from);
    }
    static int randCutOff = 0; // RAND_MAX / 4;
    bool doRTP = user->tempuseObject(); // User's first try
    if (user->isUnlikely == unlikely && user->proxy !=
        rand() % randCutOff && !user->isTemporary()); // User's first try
    if (doRTP) {
        if (dft == WaitForSingleObject((photon, 0),
                                      dw == WAIT_PAIRED && dw != WAIT_TIMEOUT)) {
            lastRTP = startLatency;
        }
        // Remember that we're doing RTP for user. Only do once.
        user->setPrid(true);
        user->updatePrid(*db);
        // Redirect
        Cstring a("Location: ");
        a += "http://206.4.219.6/";
        char b[10];
        sprintf(buf, "%s", user->getId());
        a += b;
        a += "/";
        Cstring fa = ad->getFfileHandle();
        static char f[10];
        if (fa) {
            errLog << "trying RTP\n";
            errLog << "User: " << user->getId() << "\n";
            errLog << "Browser: " << browserName((int) user->browser) << "\n";
            errLog << "A: " << a;
            sendError(c, "302 Moved Temporarily", a);
            VERIFY! ReleaseMutex((photon));
            logAdSend(ad, user, page);
            errLog.flush();
            db->commit();
            releaseToPool(*db);
        }
        else {
            // (f.c).level();
            sendAd(db, ad, user);
            if ((f.c).isError()) {
                if (v == GET) {
                    static int counter;
                    if (counter < 3)
                        ad->select();
                    else
                        ad->select();
                }
            }
        }
    }
}

```

```

    if (user->isTemporary() && user->proxy !=
        rand() % randCutOff && !user->isPermanent()) {
        User *user = User::lookUpUser(*db, user);
        if (user) {
            if (user->isTemporary() && user->proxy == 0) {
                if (from != user->permanentFrom) {
                    user->permanentFrom = from;
                }
            }
            Cstring from;
            const char *p = strchr(from, '?');
            if (p == 0) {
                from = from;
                char buf[151];
                writeInt(buf, *user->tmpMapId);
                user->tmpMapId = 0;
                message(buf);
            }
            else {
                from = CString(from, p - from);
            }
            Ad *ad = Ad::findSentToUser((from));
            SitePage *page = SitePage::lookUpPage(*db, (from, request));
            if ((f.c).isLevel()) {
                Cstring s("Location: ");
                s += ad->jumpTo((from));
                s += "\n";
                sendError(c, "301 Moved Permanently", s);
                c->close();
                f.c.setError();
            }
            // Must do this so activity will be logged properly.
            // See GetRequest::activity().
            user->makePermanent(*db);
            logJump(ad, user, page);
            delete page;
            delete ad;
            delete user;
            db->commit();
            releaseToPool(*db);
        }
    }
}

```

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```

// state
// select();
// flush();
// sendEnd();
// flushEnd();
// tickCount();
// sendEnd();
// startLatency - startLatency
// timeout...

```

```
GETREQUEST.CPP
// getrequest.cpp
```

```
16-Jan-1996 17:12
```

```
GETREQUEST.CPP
```

```
16-Jan-1996 17:12
```

```
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```

```
getrequest.cpp
// getrequest.cpp

#include "utildata.h"
#include "astorearea.h"
#include "adatabase.h"
#include "fd/cookie/sock.h"
#include "fd/request.h"
#include "remembered.h"
#include "log.h"
#include "status.h"
#include "fd/toolkit/db.h"
#include "fd/toolkit/dbpool.h"
#include "fd/toolkit/dppool.h"

extern CriticalSection fast;
extern Database lataini;

extern ofstream activity;
extern int activity;

extern const char *browserNames();
extern const char *program = "AdSurf";

void message(const char *);

void recalcSI();

DND_STRICTENCY; andLATENCY;

// This used to prevent multiple concurrent FPP
// requests right now because our FPPD implementation
// only does one at a time.

extern HANDLE tempMutex;

void GetRequest(service)
const char *p -> strchr(p, ' ');
CString request, p -> request;
else
    (lilName -> request);

if (lilName->left(1) == "/ad") {
    sendHeader("Content-Type: image/gif\nContent-Length: 0");
    if (lilName->left(1) == "/adframe") {
        sendHeader("Content-Type: text/html\nContent-Length: 0");
        else if (lilName->left(1) == "/jump") {
            else if (lilName->left(1) == "/whoami") {
                else if (lilName->left(1) == "/activity") {
                    else if (lilName->left(1) == "/whoami") {
                        activity(service, char(lilName -> left(10)));
                    }
                }
            }
        }
    }
}

else if (lilName->left(1) == "/status.htm") {
    sendHeader("Content-Type: text/html\nContent-Length: 0");
    if (lilName->left(10) == "/sendinfo") {
        sendHeader("Content-Type: text/html\nContent-Length: 0");
        return;
    }
}

else if (lilName->left(1) == "/") {
    if (lilName->left(9) == "/synstate") {
        if (sysstate) {
            const char *p = (lilName->right(9));
            if (strncpy(p, "java/", 6) == 0) {
                if (strncpy(p, "ad", 2) == 0) {
                    if (sendfilep) {
                        else {
                            if (*p == '/') {
                                p++;
                                if (*p == '0') {
                                    if (*p == '1') {
                                        if (*p == '2') {
                                            if (*p == '3') {
                                                if (*p == '4') {
                                                    if (*p == '5') {
                                                        if (*p == '6') {
                                                            if (*p == '7') {
                                                                if (*p == '8') {
                                                                    if (*p == '9') {
                                                                        if (*p == 'a') {
                                                                            if (*p == 'b') {
                                                                                if (*p == 'c') {
                                                                                    if (*p == 'd') {
                                                                                        if (*p == 'e') {
                                                                                            if (*p == 'f') {
                                                                                                if (*p == 'g') {
                                                                                                    if (*p == 'h') {
                                                                                                        if (*p == 'i') {
                                                                                                            if (*p == 'j') {
                                                                                                                if (*p == 'k') {
                                                                                                                    if (*p == 'l') {
................................................................
```

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```
else {  
    checkUserAgent("OmniWeb", "bromilub", osX11);  
    checkUserAgent("Lynx", "brynn", osUnknown);  
    checkUserAgent("IBM WebExplorer", "bwebexplorer", os921);  
    checkUserAgent("AIA Moai", "brMoai", osNone);  
    checkUserAgent("SPY Moai", "brMoai", osNone);  
    checkUserAgent("MacIE", "brMacIE", osNone);  
    checkUserAgent("Mechanize", "brMechanize", osNone);  
    checkUserAgent("MetraMile", "brMetraMile", osNone);  
    checkUserAgent("GNOME", "brGNOME", osNone);  
    checkUserAgent("Internet Explorer", "brIE", osUnknown);  
    checkUserAgent("Mozilla", "brMozilla", osUnknown);  
    checkUserAgent("Netscape", "brNetscape", osUnknown);  
    checkUserAgent("Sailfish", "brSailfish", osUnknown);  
    checkUserAgent("Epiphany", "brEpiphany", osUnknown);  
    checkUserAgent("InterneCT", "brICL", osUnknown);  
    checkUserAgent("QuartzDeck", "brQuartzDeck", osUnknown);  
    checkUserAgent("NSCA HomeSite (for the X)", "brNSCA", osUnknown);  
    checkUserAgent("WorldBrowser", "brWorld", osNone); }  
  
if (checkUserAgent("find(68K)", >> 0)) {  
    on = opaceti;  
    else if (userAgent.find("PPC") >> 0)  
        on = os486PC;  
    uniqueness = uno;  
}  
}  
  
else if (checkUserAgent("Prodigy", "brProdigy", osUnknown)) {  
    uniqueness = uno;  
    domainType = dProdigy;  
}  
else if (checkUserAgent("Delphi", "brDelphi", osUnknown)) {  
    uniqueness = uno;  
    domainType = dDelphi;  
}  
  
else if (browser == brUnknown) {  
    TRACE("unknown userAgent: %s", (const char *) userAgent);  
    litCos(userAgent);  
}  
  
{  
    if (userAgent.find("via proxy") >> 0) {  
        proxy = TRUE;  
        lit uniqueness = unknown;  
    }  
    uniqueness = uno;  
}
```

// location.cpp

```

#include "oldata.h"
#include "object.h"
#include "fd/coohlc/imapstate.h"
#include "fd/toolkit/trutil.h"

// next line should be in trutil.h
extern CountryTimezoneMap mapCountryTimeZone;
struct fdDaylightSavings
{
    fdDaylightSavings()
    {
        TIME_ZONE_INFORMATION tzi;
        DWORD r = GetTimeZoneInformation(&tzi);
        daylightSaving = r == TIME_ZONE_ID_DAYLIGHT;
    }

    BOOL daylightSavings()
    {
        if( Location::userRelativeTime( time_t timeRelative ) )
        {
            int utc_offset;
            int daylight_bias;
            if( country == 256 )
            {
                if( !getCountryTimezoneInfo(ace, utc_offset, daylight_bias) )
                    return FALSE;
            }
            else if( country == 0 )
            {
                return FALSE;
            }
            else
            {
                DWORD dwBias;
                if( !mapCountryTimezones::lookup( country, dwBias ) )
                    return FALSE;
                utc_offset = LOWORD(dwBias);
                daylight_bias = HIWORD(dwBias);
            }
        }
        else
        {
            // if timeRelative == 0, this assumes that they want the time
            // relative to the current time
            time_t timeRelative;
            if( timeRelative )
            {
                timeLastTime();
            }
        }
        if( !daylightSavings || daylight_bias != TZ_BIAS_UNSET )
        {
            time_t time;
            if( !timeRelative )
                time = timeLastTime();
            else
                time = time + utc_offset;
            return getime( time );
        }
    }
}

```

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```
/* request.h

 * If defined REQUEST_H_
 * define _REQUEST_H_
 * include "aboolkit/oock.h"
 *
 * num Verb { UNKNOWN, GET, HEAD, POST, }
 * class Connection;
 * class Request;
 * class Service;
 * class InternalError;
 *
 * protected:
 *     Sock sendfile(const char *fileName, const char *insertstr = 0);
 *     Connection *c;
 *     const char *request;
 *     Verb vi;
 *     string fileName;
 *     Sock userip;
 *     void sendError(const char *msg, const char *headerfield = 0);
 *     void sendError(Connection *c, const char *msg, const char *headerfield = 0);
 *     Sock bind();
 *
```

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OS OI

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```

HEADER.CPP
9 == userAgent.Left(70);
message[el];
}

// derive information about the user from the request header
// void UserHeaderDeriveIcons( char *requestHeader, browser);
const char *ua = strstr(requestHeader, "browser");
if( ua == 0 ) {
    // if no user agent field, something weird we
    // don't know much about, don't assume unique
    // uniqueness - unlikely
}
else {
    ua += 1;
    while(*ua == ' ' || *ua == '\r' || *ua == '\n') {
        ua++;
    }
    const char *p = strchr(ua, ' ');
    if( !p ) {
        caring.userAgent.ua = ua;
        caring.userAgent.uaLen = strlen(ua);
        browser = browser::brNetscape;
        littleIcon.ua userAgent = ua;
    }
    else {
        // OS
        littleIcons.userAgent =
            littleIcon.userAgent.ua.userAgent + " " +
            uaLeft.userAgent.ua.userAgent + " " +
            "NCSA Mosaic/" + ua;
        browser = browser::brNCSA;
        littleIcon.ua userAgent = ua;
    }
    // OS
    machine.userAgent = "Windows";
    osWin1 =
        machine.userAgent.osUnknown;
    machine.userAgent.osUnknown;
    machine.userAgent.osUnknown;
    machine.userAgent.osUnknown;
    osWin1.userAgent =
        littleIcon.userAgent.ua.userAgent + " " +
        uaLeft.userAgent.ua.userAgent + " " +
        "NIEG/" + ua;
    browser = browser::brNIEG;
    uniqueness = uniqueness::uNIEG;
    domainType = domainType::dtNIEG;
    littleIcon.ua userAgent = ua;
    os = osWin1;
    littleIcon.userAgent.ua.userAgent = ua;
    browser.userAgent =
        littleIcon.userAgent.ua.userAgent + " " +
        "Microsoft Internet Explorer/" + ua;
    os = osWin2;
    browser.userAgent =
        browser.userAgent + " Microsoft Internet Explorer/4.00";
    browser.userAgent =
        browser.userAgent + "Windows";
    littleIcon.userAgent.ua.userAgent = ua;
    os = osWin3;
    browser.userAgent =
        browser.userAgent + "Windows 95" + "OSWin95";
    littleIcon.userAgent.ua.userAgent = ua;
    browser.userAgent =
        browser.userAgent + "HotJava";
    browser.userAgent =
        browser.userAgent + " " +
        littleIcon.userAgent.ua.userAgent + " " +
        "Enhanced_Mosaic/" + ua;
    os = osWin4;
    browser.userAgent =
        browser.userAgent + " NetsCruiser";
    littleIcon.userAgent.ua.userAgent = ua;
    browser.userAgent =
        browser.userAgent + " " +
        littleIcon.userAgent.ua.userAgent + " " +
        "BriteCruiser";
    os = osWin5;
}

else {
    uaLeft.userAgent.ua.userAgent = ua;
    browser.userAgent =
        uaLeft.userAgent.ua.userAgent + " " +
        "BriteCruiser";
    littleIcon.userAgent.ua.userAgent = ua;
    browser.userAgent =
        browser.userAgent + " " +
        littleIcon.userAgent.ua.userAgent + " " +
        "BriteCruiser";
    os = osWin6;
}

```

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11-SEP-1999 13:30

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server.h
// server.h
// General ad server startup stuff.
//
BOOL startServer();

```
// status.h
void setstatus(const char *s);
extern int adsend();
extern int jumptaken;
extern int totalAdSendLatency;
extern int totalAdSendTime;
extern int timeOut();
extern int poolTakeOut();
extern int barrier, landDev, testAdr;
void latency(int n);
void adsendTime(int n);
void adgent();
```

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```
#ifndef _GTRREQUEST_H_
#define _GTRREQUEST_H_
#include "request.h"
#include "objects.h"
class GtRequest : public Request
{
public:
    GtRequest(Connection *c, Verb v,
              const char *requestText,
              const sockaddr_in &from);
    Request(c, v, "requestText", from);
    virtual void service();
    selected();
    void wholenull();
    void jumpIn(char *from);
    void sendInfo(const char *from);
    void activity(const char *activityStr); // Metacape 2.0 frames
    void sendFrame(const char *from);
    void takeJump(const char *from);
    void system();
    void sendDatabase(db, id, ad, User *ui);
    // send info
    void sendInfo(const char *url);
    void url_(const char *url);
};

#endif
```

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EXHIBIT B

26-Sep-1995 12:19

ADONIETRAD.H
// rememberAd.h
//

void rememberSendAd (ad, User *u, const char *fromDoc);
// returns Ad ID
DWORD queryAdSent (User *u, const char *fromDoc);

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